"Replacement Sheet"

Fig. 9a

Comparative figure of 13K prolamin sequences

```
1:-----AG--GAAGCATAGTAGTAGAATCCTACAAAAATGAAGATCATTTT
RM1.(SEQ ID.3)
RM4.(SEQ_ID.94) 1:--G--CAAA-ATAGAA--AG-ATC-----TAGTGTCCCGCAGCAATGAAGATCATTTT
RM5. (SEO ID. 95) 1: CAATTCAAACATTATAGTTGAAGCATAGTAGTAGTAGTAGAATCCTACAAAAATGAAGATCATTTT
RM7.(SEQ ID.96)
              1:-----GAAGCATAGTAGTAGAATCCAACAACAATGAAGATCATTTT
RM9.(SEO ID.1)
              1:--G--CAAA-AGCATA--AG-AAC----TAGAAACCCACCACAATGAAGATCATTTT
                                             111 11 1 111111111111111
                                   111
RM1.(SEO ID.3)
              61: CGTATTTGCTCTCCTTGCTATTGTTGCATGCAA-CGCTTCTGCACGGTTTGATGCTCTTA
RM4 (SEO ID 94) 61:CGTCTTTGCTCTTGCTATTGCTGCATGCAG-CGCCTCTGCGCAGTTTGATGTTTTAG
RM5.(SEO_1D.95) 61:CGTATTTGCTCTCCTTGCTATTGTTGCATGCAA-CGCTTCTGCACGGTTTGATGCTCTTA
RM7.(SEQ ID.96) 61:CGTATTTGCTCTCCTTGCTATTGTTGCATGCAATCGC-TCTGCGCGGTTTGATCCTCTTA
RM9 (SEO ID 1)
               61 : CTTCTTTGCTCTCCTTGCTATTGCTGCATGCAG - TGCCTCTGCGCAGTTTGATGCTGTTA
                  1 1 111111111111111111111 1111111
                                                 11 11111 1 1111111 1 1
RM1. (SEO ED. 3) 121:GTCAAAGTTATAGACAATATCAACTACAATCTCCTGCTACAGCAACAAGTGCTCA
RM4. (SEO ID. 94) 121:GTCAAAGTTATAGGCAATATCAGCTGCAGTCGCCTGCTCCTGCTACAGCAACAGGTGC1TA
RM5. (SEO ID. 95) 121: GTCAAAGTTATAGACAATATCAACTACAATCGCATCTCCTGCTACAGCAACAAGTGCTCA
RM7.(SEQ_ID.96) 121:GTCAAAGTTATAGGCAATATCAACTACAGTCGCATCTCCTACTACAGCAACAAGTGCTCA
RM9_(SEO_1D_1) 121:CTCAAGTTTACAGGCAATATCAGCTGCAGCCGCATCTCATGCTGCAGCAACAGATGCTTA
                   RM1.(SEO ID.3) 181;GCCCATGCAGTGAGTTCGTAAGGCAACAGCATAGTGGCAACCCCCTTCTGGCAAC
RM4. (SEO. ID. 94) 181: GCCCATATAATGAGTTCGTAAGGCAGCAGTATGGCATAGCGGCAAGCCCCTTCTTGCAAT
RM7. (SEO 1D.96) 181:GCCCATGCAGTGAGTTCGTAAGGCAACAGTATAGCATAGTGGCAACCCCCTTCTGGCAAC
RM9. (SEO. ID. 1) 181:GCCCATGCGGTGAGTTCGTAAGGCAGCAGCAGCAGCAGCGGCAACCCCCTTCTTCCAAT
                  *****
                           **************
                                               111 11 11111 11111111 111
RM1.(SEO ID.3) 241:CAGCTACGTTTCAATTGATAAACAACCAAGTCATGCAGCAACAGTGTTGCCAACAGCTCA
RM4_(SEO_ID_94)_241:CAGCTGCGTTTCAACTGAGAAACAACCAAGTC-TG--GCAACA--GCT--C-GC-GCT--
RM5 (SEO ID 95) 241-CAGCTACGTTTCAATTGATAAACAACCAAGTCATGCAGCAACAGTGTTGCCAACAGCTCA
RM7. (SEO ID. 96) 241: CAGCTACGTTTCAATTGATAAACAACCAAGTCATGCAGCAGCAGTGTTGCCAACAGCTCA
RM9.(SEQ ID.1) 241:CACCCGTGTTTCAACTGAGAAACTGCCAAGTCATGCAGCAGCAGCAGTGCCGAACAGCTCA
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"Replacement Sheet"

Fig. 9b

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RM1.(SEO_ID.3) 301:GGCTGGTAGCGCAACAATCTCACTACCAGGCCATTAGTAGCGTTCAGGCGATTGTGCAGC
RM4.(SEQ ID.94) 301:GG-TG---GCGCAACAATCTCACTATCAGGACATTAACATTGTTCAGGCCATAGCGCAGC
RM5 (SEO ED 95) 301 GGCTGGTAGCGCAACAATCTCACTACCAGGCCATTAGTAGCGTTCAGGCGATTGTGCAGC
RM7. (SED. 1D. 96) 301: CGCTGGTAGCACACACACTCTCACTACCACGCCATTAGTATTGTTCAAGCGATTGTGCAAC
RM9 (SEC. ID. 1) 301-GGATGATCGCACACAGTCTCACTGCCAGGCCATTAGCAGTGTTCAGGCTATTGTGCAGC
                        RM1 (SED 1D 3) 361:AACTACAGCTGCAGCAGCTGGTGTT-GTCTACTTTGATCAGCTCAAGCTCAAGCTCAA
RM4. (SEO 1D.94) 361; AGCTACAACTCCAGCAGTTIGGTGATC-TCTACTTTGATCGGAATCTGGCTCAAGCTCAA
RM5.(SEQ_ID.95) 361:AACTACAGCTGCAGCAGGTCGGTGTT-GTCTACTTTGATCAGACTCAAGCTCAAGCTCAA
RM7.(SEQ ID.96) 361:AGCTACAACTGCAGCAATTTAGTGGT-GICTACTTTGATCAGACTCAAGCTCAAGCCCAA
RM9.(SEO ID.1) 361:AGCTACGGCTACAACAGTTTGCT-AGCGTCTACTTCGATCAGAGTCAAGCTCAAGCTCAAGCCCAA
                                         ******* **** ** ** ******* ***
                 1 1111 11 11 1 1
RM4.(SEQ_ID.94) 421:GCTCTGTTGGCTTTTAACGTGCCATCTAGATATGGTATCTACCCTAGGTACTATGGTGCA
RM7.(SEO ID.96) 421:ACTCTGTTGACCTTCAACTTGCCATCCATATGTGGTATCTACCCTAACTACTACTACTACTGCTT
RM9 (SEO ID. 1) 421 GCTATGTTGGCCCTAAACATGCCGTCAATATGCGGTATCTACCCAAGCTACAACACTGCT
                  Rm1.(SEQ ID.3) 481:CCGAGGAGCATTCCCACCGTTGGTGGTGTTCTGGTACTGAATTGTAATAGTATAATGGTTC
Rm4. (SEO ID.94) 481:CCCAGTACCATTACCACCCTTGGCGGTGTCTTGTAATGAGTTTTAACAGTATAGTGGTTC
RM5 (SED 1D.95) 481:CCGAGGAGCATTCCCACCGTTGGTGGTGTCTGGTACTGAATTGTAATAGTATAATGGTTC
RM7. (SEQ ID.96) 481:CCCAGGAGCATTGCCACTGTTGGTGGTGTGTTGGTACTGAATTGTAACAATATAATAGTTC
RM9. (SEO 1D.1) 481:CCCTGTAGCATTCCCACCGTCGGTGGTATCTGGTATTGAATTGTAGCAGTATAGTAGTAC
                 RM1.(SED_ID.3) 541:AAATGTTAAAAATAAAGTCATGCATCATGCGTGAC-AGTTGAAACTTGATGTC-ATA
RM4 (SEO ID. 94) 541:GGAAGTTAAAAATAAGCTCAGATATCAT-ATATGTGACATG-TGAAACTT-TGGGTGATA
RM5. (SEO 10.95) 541:AAATGTTAAAAATAAAGTCATGCATCATGCGTGAC-AGTTGAAA-AAAAAAA--AAA
RM7. (SED ID.96) 541:GTATGTTAAAAATAAAGTCATACATCATGTGTGGAC-TGTTGAAAACTTAGGGTC-ATA
RM9 (SEO LD.1) 541:AGGAGAGAAAATAAAGTCATGCATCATCGTGTGACAAGTTGAAACATCGGGGTGATA
                     1 11111111 111 11111 1 11111 1 11111
RM1.(SEQ ID.3) 601: TAAATCTAAAT-AAA-C-TCGTGC-C-----
RM4 (SEO ID 94) 601:TAAATAGAAAAAAGTTGTCTTTCATATTTA---
RM5.(SEO 1D.95) 601:AAA-----
RM7.(SEQ 1D.96) 601: TAAATCTAAATAAAATCATCTTAC-CTAAAAAA-
RM9.(SEO ID.1) 601:CAAATCTGAATAAAATGTCATGCAAGTTTAAAC
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(restriction enzyme site) ligation sequence site

Fig. 14A

ATGGCAGCATACACCAGCAAGATCTTTGCCCTGTTTGCCTTAATTGCTCTTTCTGCAAGTGCCACTACTGCA MetAlaAlaIyrThrSerLysIlePheAlaLeuPheAlaLeuIleAlaLeuSerAlaSerAlaThrThrAla (SEQ 1D, 108)

A TGGCAGCATACACCAGCAAGATCTTTGCCCTGTTTGCCTTAATTGCTCTTTCTGCAAGTGCCACTACTGCATCTAGAGCAATGGTGAGCAAGGGGGAAGAAG MetAlaAlaTyrThrSerLysIlePheAlaLeuPheAlaLeuIleAlaLeuSerAlaSerAlaThrThrAlaSerArgAlaMetValSerLysGlyGluGlu GFP protein 10 kDa prolamin signal sequence 10.119)

-Introducing gene 6 in Fig. 12 original variety

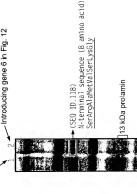


Fig. 14B